

Integer Word Problems

Name \_\_\_\_\_ # \_\_\_\_\_

1. The temperatures for one week in February were: Monday ( $-15^{\circ}$ ), Tuesday ( $-5^{\circ}$ ), Wednesday ( $-7^{\circ}$ ), Thursday ( $-21^{\circ}$ ), Friday ( $-10^{\circ}$ ), Saturday ( $0^{\circ}$ ), Sunday ( $23^{\circ}$ ). Which day was the coldest?
2. An elevator at the first floor goes up 15 floors, then up 10 floors more, and then down 11 floors. What floor is the elevator on now?
3. The temperatures in 4 rooms are  $-15^{\circ}$ ,  $75^{\circ}$ ,  $-2^{\circ}$ , and  $-13^{\circ}$ . What is the total of the rooms' temperatures?
4. The temperature in Denver was  $-3^{\circ}\text{F}$  and temperature in Phoenix was  $32^{\circ}\text{F}$ . What was the difference in their temperatures?
5. If a bird flies up to 150 feet from the ground, drops 50 feet, and then flies up 100 feet, what is the bird's height about ground?
6. A meter reads  $-10^{\circ}$  at 8:00am, and reads  $35^{\circ}$  lower at 9:00am. What is the meter reading at 9:00am?  $^{\circ}$
7. If the temperature was  $-10$  at 7:00am and the temperature rises  $12^{\circ}$  by noon, what is the new temperature?
8. Marlowe climbed from the first step to step 21, then climbed down 14 steps and then went up 2 steps. What step is she on now?
9. When Brian and Anna started skating, the temperature was  $16^{\circ}\text{F}$ . By the time they left the rink, the temperature was  $8^{\circ}\text{F}$ . Was it colder or warmer when they left the rink? Explain.
10. A diver was 5 feet below the surface of the water. He then descended another 6 feet. How far below the surface was he?
11. A hot-air balloon descends at a rate of 12 feet per minute. How many feet will the balloon descend in 5 minutes?
12. The average January temperature in Fairbanks, Alaska, is  $-12^{\circ}\text{F}$ . The average January temperature in Duluth, Minnesota, is  $-1^{\circ}\text{F}$ . Which city has a lower average temperature?
13. The temperature was  $-2^{\circ}\text{F}$  at 7am. By 9am it was  $5^{\circ}\text{F}$ . How much did the temperature change?
14. The new indoor community pool is being filled at a rate of 25 gallons per minute. How much water will be in the new pool after 8 minutes?

15. Mario's final score on a game show was -20. Tanya's final score was 75. Who had the higher score?
16. The surface of Lake Assal in Djibouti (a country in Africa) is 156 meters below sea level. The surface of Lake Eyre in Australia is 12 meters below sea level. How much 0
17. On a scouting trip, the temperature dropped at a rate of  $3^{\circ}\text{F}$  per hour. How many degrees did the temperature fall in an 8-hour period?
18. In the first round of a golf game, Jake was 3 strokes under par, or -3. In the second round, Jake was 2 strokes over par, or +2. What was Jake's score after round two?
19. The community swimming pool is being drained for the winter. The pool drains at a rate of 20 gallons per minute. How many gallons are drained in 10 minutes?
20. On Monday, Manuel recorded a wind-chill of  $-60^{\circ}\text{F}$ . On Tuesday, the wind chill was  $-45^{\circ}\text{F}$ . Based on the wind-chill, which day was cooler?
21. Jana bought 15 new CDs every month. How many CDs will Jana have in a 6-month period? If Jana decides to give away  $\frac{1}{3}$  of her collection at the end of the 6-months, how many will she have then?
22. Jenny used a 60-minute blank CD to record her favorite songs. One of her favorite songs is 3 minutes long, and another is 4 minutes long. How much playing time will be left on her CD after Jenny records these songs?
23. Sonja played great golf of the last three holes of the course. She was 2 strokes under par (-2 strokes per hole) on each hole. What was Sonja's score for these 3 holes?
24. The depth of a diver starting at the surface of the water changed -5 feet per minute. How deep was the diver after 12 minutes?
25. A submarine dives at -30 feet per minute. If the submarine started at the surface of the ocean, what is the submarine's depth after 9 minutes?